

**CLAIMS**

1. A secondary reflector for SHF antennae of the Cassegrain type with a secondary basic reflector (103),  
5 which includes a first circular "ring" (104) in the shape of a cylinder made of conducting material, whose diameter is equal to the external diameter of the basic reflector, secured by one of its ends to the outer edge of this basic reflector so that it extends to the side of the reflecting  
10 surface of the reflector, and whose height (H) is designed to reduce the "overspill radiation" of the secondary reflector, characterised in that it also includes a second "ring" (105) in the shape of a circular crown, made of conducting material, whose inside diameter is equal to the  
15 diameter of the first ring, fixed to the free end of this first ring and with a width (h) chosen to further reduce said overspill radiation.

2. A reflector according to claim 1, in which the values of parameters H and h are of the order of one  
20 quarter of the average wavelength for which the antenna is dimensioned.

3. A reflector according to claim 1, in which the first and the second rings are presented in the form of a single full ring (404) of height H' and thickness h', and  
25 which also has a cone (402) made of solid dielectric material, which connects the waveguide (401), intended to feed into the antenna, to the basic reflector so that the values of parameters H' and h' can be reduced in relation to the values of parameters H and h.

30 4. A reflector according to claim 3, in which the free end of the single full ring (404) is machined so as to have a cut-away (405) which reduces its thickness at the outer circumference so as to further reduce said overspill radiation.